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DATE MAILED: 08/16/2010

## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 08/16/2010

Ryan, Mason & Lewis, LLP 90 Forest Avenue Locust Valley, NY 11560 EXAMINER
OCHOA, JUAN CARLOS
ART UNIT PAPER NUMBER
2123

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,045	07/15/2003	Rajarshi Bhattacharya	I-4-2-2-1	7529

TITLE OF INVENTION: METHOD AND APPARATUS FOR AUTOMATIC GENERATION OF MULTIPLE INTEGRATED CIRCUIT SIMULATION CONFIGURATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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Ryan, Mason & Lewis, LLP 90 Forest Avenue Locust Valley, NY 11560			I he Star add tran	roby cortify that th	ic Good	of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address I) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.	
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								(Date)
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nonprovisional	NO		\$1510	\$300	\$0		\$1810	11/16/2010
EXAMIN	NER		ART UNIT	CLASS-SUBCLASS	1			
OCHOA, JUAN	N CARLOS		2123	703-014000	,			
1. Change of corresponden CTR 1.363.)  Change of correspon Address form PTO/SB/2.  Tee Address 'Indie PTO/SB/47', Rev 0.3-02.  Number is required.  3. ASSIGNEE NAME AN PLEASE NOTE: Unlet recordation as set forth (A) NAME OF ASSIG	ndence address (or Cha 122) attached. ation (or "Fee Address" or more recent) attach D RESIDENCE DATA ss an assignee is identi in 37 CFR 3.11. Comp	nge of ' 'Indica ed. Use	Correspondence  ation form of a Customer  E PRINTED ON		o 3 registered pater vely, le firm (having as a agent) and the nam rneys or agents. If printed. pe)	memb es of u no nan	er a 2	ocument has been filed for
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4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies				B. Psyment of Fee(s): (Please first reapply any previously paid issue fee shown above)   A check is enclosed.   Psyment by readit and, Form PTO-2038 is attached.   The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Statu  a. Applicant claims	SMALL ENTITY statu	s. See	37 CFR 1.27.	b. Applicant is no lon	ger claiming SMA	LLEN	FITY status. Sec 37 Cl	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requering of the United Sta	rired) v tes Pate	will not be accepted and Trademark	d from anyone other than i Office.	the applicant; a regi	stered	attorney or agent; or th	ne assignee or other party in
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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10/620,045	10/620,045 07/15/2003 Rajarshi Bhattacharya		1-4-2-2-1	7529	
75	90 08/16/2010	EXAMINER			
Ryan, Mason & Lewis, LLP			OCHOA, JUAN CARLOS		
90 Forest Avenue		ART UNIT PAPER NUMBER			
Locust Valley, NY 11560			2123		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 612 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 612 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) BHATTACHARYA ET AL. 10/620,045 Notice of Allowability Examiner Art Unit JUAN OCHOA 2123 ve

The MALING DATE of this communication appears on All claims being allowable, PROSECUTION ON THE MERITS IS (OR REherewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT. Of the Office or upon petition by the applicant. See 37 CFR .1313 and MIM	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initiati
<ol> <li>This communication is responsive to <u>07/12/2010</u>.</li> </ol>	
<ol> <li>The allowed claim(s) is/are <u>1,3,4,6,11-19 and 21-27</u>.</li> </ol>	
3.	aceived.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this concreted below. Failure to timely comply will result in ABANDONMENT of THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	
A SUBSTITUTE OATH OR DECLARATION must be submitted. No INFORMAL PATENT APPLICATION (PTO-152) which gives reaso	
CORRECTED DRAWINGS ( as "replacement sheets") must be sub- (a) including changes required by the Notice of Draftsperson's Pati 1) hereto or 2) in Paper No./Mail Date (b) including changes required by the attached Examiner's Amenc Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) steech street. Replacement sheet(s) should be labeled as such in the heade 6. DEPOSIT OF and/or INFORMATION about the deposit of Bl attached Examiner's comment regarding REQUIREMENT FOR TH	ment / Comment or in the Office action of could be written on the drawings in the front (not the back) of a raccording to 37 CFR 1.121(d).  OLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	Notice of Informal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (PTO-413),
Information Disclosure Statements (PTO/SB/08),  People No. Mail Date.	Paper No./Mail Date  7. ⊠ Examiner's Amendment/Comment
Paper No./Mail Date	8. X Examiner's Statement of Reasons for Allowance
of Biological Material	9 ☐ Other

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of Biological Material	9. 🔲 Other						
Paper No./Mail Date	Examiner's Statement of Reasons for Allowance						
B. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Date  7.  Examiner's Amendment/Comment						
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Paper No./Mail Date, identifying indical such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).							
hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of							
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A SUBSTITUTE OATH OR DECLARATION must be submitted. No INFORMAL PATENT APPLICATION (PTO-152) which gives reasonable.							
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#### DETAILED ACTION

1. The amendment filed 07/12/2010 has been received and considered. Claims 1,

3, 4, 6, 11–19, and 21–27 are presented for examination.

#### Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- Authorization for this examiner's amendment was given in a telephone interview with Joseph B. Ryan on 8/13/2010.
- The claims have been amended as follows:
- 5. Claim 22 line 1, the number "8" has been replaced with the number --1--.

#### Allowable Subject Matter

- 6. Claims 1, 3, 4, 6, 11–19, and 21–27 are allowed over prior art of record.
- The following is an examiner's statement of reasons for allowance:
- 8. While Boggio et al., "NetworkDesigner–Artifex–OptSim: A Suite of Integrated Software Tools for Synthesis and Analysis of High Speed Networks", (see PTO-892 Notice of Reference Cited dated 06/19/2006), discloses simulating the operation of at least one switch fabric (page 29, section 2, paragraph 4; page 30, col. 1, paragraph 1, lines 11-15) comprising a plurality of integrated circuits of a designated chipset (page 28, col. 2, bullet 3; page 29, col. 1, paragraph 5, sentence 3; page 30, col. 2, lines 6-9),

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Sun et al., "Simulation Studies of Multiplexing and Demultiplexing Performance in ATM Switch Fabrics", (see PTO-892 Notice of Reference Cited dated 06/19/2006), discloses wherein the one or more configurable parameters of a base device comprise a switching capacity (see "switching capacity" as "time slot" in "The time slot is defined by users according to required time resolutions. For example, one can map the time slot onto the time that a queue server processes an ATM cell or the characteristics of the user-network interface at a rate of 155.520 Mbit/s or 622.080 Mbit/s specified in the CCITT recommendation [1][2]. Once the time slot is defined, the inter-arrival time of the cells and queue service rate can be specified in terms of the time slots" in page 21/3, 4<sup>th</sup> paragraph), and a configuration type selected from a plurality of configuration types (page 21/3, 5<sup>th</sup> paragraph),

Ishida et al., "A 10-GHz 8-b Multiplexer/Demultiplexer Chip Set for the SONET STS-192 System", (see PTO-892 Notice of Reference Cited dated 06/19/2006), discloses an ultra high speed 8-b multiplexer and demultiplexer chip set that has been developed for the synchronous optical network (SONET) as a key component of next-generation optical fiber communication systems that will require higher data bit rates for future increases in transmission capacity (page 1936, col. 1),

Sung Soo Park, U.S. Patent 7,505,422 discloses emulating a FIFO switching function in a single chip crossbar switch architecture that operates at a high switching speed with a large bandwidth and supports multiple QoS levels, yet does not demand an inordinately large number of input and output queues or otherwise excessively tax memory requirements (see col. 3, lines 6-11),

Sung Soo Park, U.S. Patent 7,461,167 discloses emulating an ideal characteristic of

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output queue switching (see col. 11, lines 19-21),

and Park et al., U.S. Patent 7,274,690 discloses a well-distributed latency pattern shows that his camQ architecture emulates ideal QoS (see col. 10, lines 47-58), none of these references taken either alone or in combination and in the same relationship with the prior art of record discloses the limitations of independent claims 1, 18, and 19 "an interface for user control of configurable parameters of the switch fabric; wherein the configurable parameters of the switch fabric comprise one or more configurable parameters of each of the integrated circuits and configurable parameters of a base device for the designated chip set; wherein the configurable parameters of the base device comprise a cell payload size, a chip version, a clock speed, a switching capacity, and a configuration type selected from a plurality of configuration types comprising a centralized configuration, a stackable configuration and a distributed configuration", in combination with and in the same relationship with the remaining elements and features of the claimed invention. Also, there is no motivation to combine these references to meet these limitations. It is for these reasons that applicant's invention defines over the prior art of record.

# Response to Arguments

- 9. Applicant's arguments have been fully considered, and they are persuasive.
- Regarding the claim objections, the amendment corrected all deficiencies and the objections are withdrawn.
- Regarding the rejections under 103, the amendment overcame all rejections and the rejections are withdrawn.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to JUAN C. OCHOA whose telephone number is (571)272-

2625. The examiner can normally be reached 9:30AM - 6:00 PM on Mondays,

Tuesdays, Thursdays, and Fridays.

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Rodriguez can be reached on (571) 272-3753. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

13. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see  $http://pair-direct.uspto.gov. \ Should \ you$ 

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. C. O./ 8/13/2010

Examiner, Art Unit 2123